



Kaiserstraße 12 76131 Karlsruhe

http://www.pse.kit.edu

## PhD Student Position (f/m) in Biomedical Engineering/Applied Mathematics

**Job description:** We seek a PhD candidate for CRC 1173 "Wave Phenomena:

Analysis and Numerics" for project B7 "Dynamics of electro-cardiac depolarization waves". In this project the spread of depolarization waves in the heart is investigated both from a mathematical point of view and from a biomedical engineering / cardiology point of view. Our goal is to develop, numerically realize and mathematically analyse a fully coupled model for the cardiac electromechanical system and to describe the dynamics of the main types of

depolarization waves.

The PhD student will work on her/his research project. As a member of the integrated Research Training Group (iRTG) she/he benefits from a variety of qualification programs including for example advanced and tailor-made courses on the topics of the CRC. The PhD student will attend conferences, workshops and summer schools. Teaching possibilities can be offered, too.

For further information take a look at <a href="http://www.waves.kit.edu">http://www.waves.kit.edu</a>.

Qualification: Candidates hold a Master degree (or equivalent) in Mathematics /

Physics / Engineering and have a strong background in numerical methods for differential equations and basic knowledge in biomedical engineering and computational modelling. They are open minded,

active and have a good command of English language.

Salary: The remuneration occurs on the basis of the wage agreement of the

civil service in TV-L E13.

Institute: Institute of Biomedical Engineering (IBT) / Institute for Applied and

Numerical Mathematics (IANM)

**Contract duration:** limited, three years (might be extended)

**Starting date:** as soon as possible

Application up to: 05.06.2017

Contact person in line-

management:

For further information please contact Prof. Dr. Olaf Dösse, email:

olaf.doessel@kit.edu or Prof. Dr. Christian Wieners, email:

christian.wieners@kit.edu.

**Application:** Applications (CV, cover letter, certificates, names of two referees)

should be sent to Christian Knieling (office@waves.kit.edu) in a single

PDF file.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially

considered if equally qualified.

Karlsruher Institute of Technology Personalservice KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.